Rana University
Faculty of Economics
Finance Department

Course Title	Advanced Networking
Lecturer Name	**Baitullah Paktin**
Credit Hours	**4**
Lecture Days	**Sunday, Monday, Tuesday, Thursday**
Lecture Timing	**Early Morning, Morning, Afternoon, Evening**
Class No.	**602, 601, 604, Lib**

Course Description

The advanced networking course includes the associate level introduction and configuration of Cisco networking and internetworking devices (especially switches and routers). In this course, the most important topics from the Cisco CCNA course are included. This course has a 50-50 theoretical and practical portion. The simulations tools like Cisco Packet Tracer & GNS3 as well as physical cisco devices are used. This course will enable the students to build, configure, manage and troubleshoot small to medium size networks using cisco devices.

The main topics covered in this course are:

- Routing along with its types
- Routing protocols such as RIP, OSPF & EIGRP
- ACL
- NAT
- VLAN
- Switch-port Security
- STP

Course Objective

This course will provide a basic and advanced understanding of the
methods and techniques of developing a simple to moderately complex web site. Using the current standard web page language
students will be instructed on creating and maintaining a simple and complex web site
.for different class of devices
Students will have the opportunity to plan and to build a personal Website based upon following a logical process of information design

Teaching Method

- Lecture/Explanation
- Discussion
- Questioning

- Hands-on/Inquiry
- Presentations
  - Cooperative groups
  - Other _____

Learning Outcome

: By the end of the course, students will be able to
Define the purpose of HTML, CSS and JavaScript .1
Make a simple web page using HTML .2
Use CSS to control text styles and layout .3
Use CSS libraries such as Bootstrap to create responsive layouts .4
Use JavaScript variables and functions .5
Manipulate web page content using JavaScript .6
Respond to user input using JavaScript .7
students will be instructed on creating and maintaining a simple and complex web .8
site for different class of devices

Course Plan

Weeks	Chapters	Teaching Method	Remarks
1	**Introduction to web technology** - Course objective and overview. - web technology evaluation and benefits **Web Engineering fundamentals** - What is Internet and its effect on today's technology - Introduction to Web designing technologies like HTML, CSS, JavaScript **Web technology protocols** - Hypertext transfer protocols (HTTP) and (HTTPS) - HTTP version and working methodology - FTP (file transfer protocols) **HTML Introduction** - What is HTML? - HTML history - HTML role in web technology - How to work with HMTL - HTML tags syntax - HTML document structure - How to start using HTML	Theory	Assisting the students upon the suggested book (E-Business & E-Commerce "How To Program" by Robert F.Meigs and Walter B.Meigs:11 Edition ,2002)
2	**HTML Tags** - HTML elements and attribute	Theory	**Homework**

	HTML Basic Tags		
3	- HTML Block and Inline elements Website Layout using HTML	Theory	**Homework**
4	- HTML iFrame - JavaScript tags - Html head tags Meta tags	Theory	**Homework**
5	- HTML form elements HTML5 new elements	Practical	**Homework**
6	**CSS3 introduction** - What is CSS3? - Why use CSS3? CSS Syntax and selector -	Theory	**Homework**
7	- How to use CSS3? **CSS Properties** - Color - Backgrounds - Borders - Margins Padding -	Practical	**Homework**
8	- Height/Width - Text - Fonts - Links - Lists Tables -	Practical	**Homework**
9	**Mid-Term Exam**		
10	- Box model - Outline - Display - Max width - Position Float -	Practical	**Homework**
11	- Inline block - Align - Pseudo-elements - Navigation Bar - Dropdown Tooltips -	Practical	**Homework**
12	- Combinatory - Image Gallery - Image Opacity - Image Sprite - Attr Selector - Forms Counters - CSS 3 new elements -	Practical	**Homework**
13	**JavaScript introduction** - JS importance - How to use JS JS Syntax -	Theory	**Homework**

14	- JS Comments - JS Variables - JS Operation - Data Types Functions -	Practical	**Homework**
15	- Objects - Scope - Events - Arrays - Comparison - Condition - Switch Loops -	Practical	
16	**JavaScript DOM intro** - Methods - Documents - Elements - HTML - CSS Animation -	Practical	**In accordance with exam schedule**
17	**Final Exam**		
Refere nce	E-Business & E-Commerce “How To Program” by Robert F.Meigs and Walter B.Meigs:11 Edition ,2002 www.W3schools.com www.tutorialspoint.com		

Class Discipline

To maintain control and manage the classroom properly I’m applying the following rules and discipline in my classes.

- Trying to include rules on my syllabus.
- Talk about my rules on the first day of class
- Trying to know students by name.
- Trying to act professionally.
- Exploring the discipline issue before acting.

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Assessment Method

A useful beginning point in determining the optimum mix of assessment methods is the resources and I select the

Following assessment method.

- Independent Work
- Guided Instruction
  - Practice Sheets
- Project/Presentation
  - Conference with students
  - Test/Quiz
  - Other _____

Exam Method

Not allowing the students to whisper during the exam. (if catcht the place will be - changed)

.Cheating by any means the paper will be canceled -

.Not allowing to use cell phone, mobile, tablets …etc-

.exam will be conducted written -

Prepared by:

Approved by

Khawaja Sharif Sediqi